unsigned long int fs1=A1;

unsigned long int fs2=A2;

unsigned long int fs3=A3;

unsigned long int mx=A4;

unsigned long int fs1read=0;

unsigned long int fs2read=0;

unsigned long int fs3read=0;

unsigned long int mxread=0;

int sensorValue1 = 0; // value read from the pot

int sensorValue2 = 0; // value read from the pot

int sensorValue3 = 0; // value read from the pot

int sensorValue4 = 0; // value read from the pot

int outputValue1 = 0; // value output to the PWM (analog out)

int outputValue2 = 0; // value output to the PWM (analog out)

int outputValue3 = 0; // value output to the PWM (analog out)

int outputValue4 = 0; // value output to the PWM (analog out)

void setup() {

// initialize serial communications at 9600 bps:

Serial.begin(9600);

}

void loop() {

// read the analog in value:

fs1read = analogRead(fs1)/10;

fs2read=analogRead(fs2)/10;

fs3read=analogRead(fs3)/10;

mxread=analogRead(mx);

// map it to the range of the analog out:

outputValue1 = map(sensorValue1, 0, 1023, 0, 255);

outputValue2 = map(sensorValue2, 0, 1023, 0, 255);

outputValue3 = map(sensorValue3, 0, 1023, 0, 255);

outputValue4 = map(sensorValue4, 0, 1023, 0, 255);

// change the analog out value:

if(fs1read<=125 && fs2read)

{

Serial.print("fs1 = " );

Serial.print(fs1read);

Serial.print(“1”);

delay(20);

}

else if(fs2read<=125)

{

Serial.print("fs2 = ");

Serial.print(fs2read);

Serial.print(“2”);

delay(20);

}

else if(fs3read<90)

{

Serial.print("fs3=");

Serial.print(fs3read);

Serial.print(“3”);

delay(20);

}

else if(mxread>250)

{

Serial.print("mems =");

Serial.print(mxread);

Serial.print(“4”);

delay(20);

}

}